

FIRE PROTECTION SYMBOLS AND ABBREVIATIONS

NOTE: SYMBOLS AND ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

GENERAL SYMBOLS

—XF—	EXISTING FIRE SUPPLY
—F—	FIRE SUPPLY
—XSPR—	EXISTING SPRINKLER PIPE
—SPR—	SPRINKLER PIPE
—DSPR—	DRY SPRINKLER PIPE
—GALV—	GALVANIZED SPRINKLER PIPE
—W—	WATER SERVICE
—○—	ELBOW DOWN
—○—	ELBOW UP
—○—	TEE DOWN
—○—	TEE UP
—□—	PIPE CAP OR FLUSHING CONNECTION
—≡—	PIPE SLEEVE
—▷—	CONCENTRIC REDUCER
—◁—	ECCENTRIC REDUCER
—○—	UNSUPERVISED SHUTOFF VALVE. ARGONNE NATIONAL LABORATORIES WILL PROVIDE LOCK AND CHAIN
—○—	UNSUPERVISED OS&Y VALVE. ARGONNE NATIONAL LABORATORIES WILL PROVIDE LOCK AND CHAIN
—○—	VALVE IN VERTICAL
—○—	CHECK VALVE
—◇—	DRY PIPE VALVE ASSEMBLY
—◇—	PREACTION VALVE ASSEMBLY
—□—	SPRINKLER ZONE CONTROL VALVE ASSEMBLY
—□—	FLOW SWITCH
—○—	PRESSURE GAUGE (WITH VALVE)
—○—	UNSUPERVISED DOUBLE CHECK DETECTOR ASSEMBLY (DCDA). ARGONNE NATIONAL LABORATORIES WILL PROVIDE LOCK AND CHAIN

—F—	HORN/STROBE
—GIF—	FIRE ALARM BELL
—○—	SMOKE DETECTOR IONIZATION TYPE
—○—	SMOKE DETECTOR PHOTOELECTRIC TYPE
—□—	HEAT DETECTOR
—#—	SPRINKLER HEAD REFER TO DRAWING SPRINKLER HEAD LEGEND FOR TYPE
—#—	EXISTING SPRINKLER HEAD CEILING MOUNTED
—#—	SIDEWALL SPRINKLER HEAD
—V—	EXISTING SIDEWALL SPRINKLER HEAD
—FDC—	STORZ FIRE DEPARTMENT CONNECTION
—FDC—	FIRE DEPARTMENT CONNECTION FOR DOUBLE CHECK DETECTOR ASSEMBLY TESTING
—FDC—	FIRE DEPARTMENT VALVE
—FDC—	ROOFTOP TEST HEADER
—FDC—	INSPECTOR'S TEST ASSEMBLY
—FDC—	INSPECTOR'S TEST AND DRAIN ASSEMBLY
—FDC—	UNSUPERVISED POST INDICATOR VALVE (PIV)
—FDC—	PIPE HANGER
—FDC—	SPRINKLER ZONE BOUNDARY
—FDC—	HYDRAULIC CALCULATION DESIGN AREA
—FDC—	DEMOLITION OF PIPING, DEVICE, ETC.
—FDC—	SPRINKLER PIPE TEXT (TOP INDICATES PIPE SIZE) (BOTTOM INDICATES CENTER TO CENTER PIPE LENGTH)

ABBREVIATIONS

ACC	- ACCESS	L	- LENGTH
ACV	- ALARM CHECK VALVE	LBS	- POUNDS
ADJ	- ADJUSTABLE	MAX	- MAXIMUM
AFF	- ABOVE FINISHED FLOOR	MEZZ	- MEZZANINE
ALT	- ALTERNATE	MFR	- MANUFACTURER
ANL	- ARGONNE NATIONAL LABORATORY	MIN	- MINIMUM/MINUTE
AP	- ACCESS PANEL	MISC	- MISCELLANEOUS
APCF	- ADVANCED PROTEIN CRYSTALLIZATION FACILITY	MTD	- MOUNTED
APPROX	- APPROXIMATE	MTG	- MOUNTING
ARCH	- ARCHITECTURAL	NFPA	- NATIONAL FIRE PROTECTION ASSOCIATION
ASSY	- ASSEMBLY	NO	- NUMBER
BLDG	- BUILDING	NOM	- NOMINAL
BOP	- BOTTOM OF PIPE	NPT	- NATIONAL PIPE THREAD
BOT	- BOTTOM	NTS	- NOT TO SCALE
BTWN	- BETWEEN	OC	- ON CENTER
CFCI	- CONTRACTOR FURNISHED CONTRACTOR INSTALLED	OD	- OUTSIDE DIAMETER
CL	- CEILING	OFCI	- OWNER FURNISHED CONTRACTOR INSTALLED
CLG	- CEILING	OFOI	- OWNER FURNISHED OWNER INSTALLED
CONN	- CONNECTION/CONNECT	PIV	- POST INDICATOR VALVE
CONTR	- CONTRACTOR	PLBG	- PLUMBING
CORR	- CORRIDOR	PRESS	- PRESSURE
CU	- COPPER	PRV	- PRESSURE REDUCING VALVE
D	- DEPTH/DRAIN LINE	PSF	- POUNDS PER SQUARE FOOT
DCDA	- DOUBLE CHECK DETECTOR ASSEMBLY	PSI	- POUNDS PER SQUARE INCH
DET	- DETAIL	PSIG	- POUNDS PER SQUARE INCH GAUGE
DIA	- DIAMETER	RAD	- RADIUS
DM	- DIMENSION	REC	- RECESSED
DN	- DOWN	REQD	- REQUIRED
DSPR	- DRY SPRINKLER PIPE	RJ	- ROUGH-IN
DWG	- DRAWING	RPM	- REVOLUTIONS PER MINUTE
EA	- EACH	RBPB	- REDUCED PRESSURE ZONE BACKFLOW PREVENTER
ELEV	- ELEVATION	RV	- RELIEF VALVE
EQUIP	- EQUIPMENT	SCH	- SCHEDULE
ETR	- EXISTING TO REMAIN	SHT	- SHEET
EXT	- EXTERIOR	SPEC	- SPECIFICATION
F	- FIRE SUPPLY	SPR	- SPRINKLER
FACP	- FIRE ALARM CONTROL PANEL	SQ	- SQUARE
FDC	- FIRE DEPARTMENT CONNECTION	S/S	- STAINLESS STEEL
FDV	- FIRE DEPARTMENT VALVE	STRU	- STRUCTURAL/STRUCTURE
FHC	- FIRE HOSE CABINET	TEMP	- TEMPERATURE
FHR	- FIRE HOSE RACK	TC	- TEST CELL
FLR	- FLOOR	TOB	- TOP OF BEAM
FMG	- FACTORY MUTUAL GLOBAL	TOB	- TOP OF BEAM
FS	- FLOW SWITCH	TOJ	- TOP OF JOIST
FT	- FEET	TOS	- TOP OF SLAB/TOP OF STEEL
FTG	- FOOTING	TYP	- TYPICAL
FVC	- FIRE VALVE CABINET	UBC	- UNIFORM BUILDING CODE
GA	- GAUGE	UFC	- UNIFORM FIRE CODE
GAL	- GALLON	UNO	- UNLESS NOTED OTHERWISE
GALV	- GALVANIZED	V	- VALVE
GPM	- GALLONS PER MINUTE	VEL	- VELOCITY
HD	- HUB DRAIN	VOL	- VOLUME
IBC	- INTERNATIONAL BUILDING CODE	W	- WIDTH
ID	- INSIDE DIAMETER	W/	- WITH
IE	- INVERT ELEVATION	W/O	- WITHOUT
IFC	- INTERNATIONAL FIRE CODE	X	- EXISTING
IN	- INCHES		

REFERENCE SYMBOLS

—REFER—	GENERAL REFERENCE DESIGNATES SHEET NUMBER	—NAME—	EQUIPMENT NAME AND NUMBER
—DET #—	DETAIL REFERENCE TOP DESIGNATES DETAIL NUMBER BOTTOM DESIGNATES SHEET NUMBER	—#—	HYDRAULIC REFERENCE POINT
—#—	SECTION REFERENCE TOP DESIGNATES SECTION NUMBER BOTTOM DESIGNATES SHEET NUMBER	—#—	ROOM NUMBER
—#—	ELEVATION SYMBOL	—#—	PLAN NOTE NUMBER
—#—	NEW CONNECTION TO EXISTING	—#—	REVISION NUMBER
		—#—	CONSTRUCTION BULLETIN NUMBER

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SEALS AND SIGNATURES



ISSUED FOR CONSTRUCTION 07/03/12

REV. NO. DESCRIPTION BY APVD DATE



FMS  
Facilities Management Services

PROJECT TITLE ADVANCED PROTEIN CRYSTALLIZATION FACILITY, ARGONNE NATIONAL LABORATORY  
PROJECT NO 08541-00  
DRAWING TITLE

FIRE PROTECTION  
SYMBOLS AND  
ABBREVIATIONS

DESIGNED SPF	A/E CADD FILE F00.00	FACILITY NOIS
DRAWN MYL	A/E DWG. NO. F00.00	
CHECKED SPF	CAD NO.	
PROJECT MANAGER	DWG STATE	
ANL - JESSE ADAMS DATE - 04/26/11	BND ORDER	
FACILITY DOCUMENT NUMBER		REV. NO.

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